



Amoco Oil Company

200 East Randolph Drive
Post Office Box 6110-A
Chicago, Illinois 60680

March 13, 1986

Mr. Ronald E. Bock
Ecology and Environment, Inc.
111 West Jackson Boulevard
Chicago, Illinois 60604

EPA Region 5 Records Ctr.



360688

Dear Mr. Bock:

Information on Amoco Wood River CERCLA Sites

As you requested at our March 4, 1986 site inspection meeting, with you and Mr. David Curnock of your firm, enclosed are documents relative to past waste disposal activities at the Amoco Wood River sites. These documents should enable you to complete the preliminary assessment of the Wood River sites for which we made notification under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

The following documents are enclosed:

- 1) Subsurface Investigation and Report on the Riverfront Disposal Site, Wood River, Illinois; for Amoco Chemicals; by James Douglas Andrews, P.E. Environmental Engineering, Inc.; October, 1980
- 2) Test Results, Disposal Site Closure, River Front Disposal Site, Wood River, Illinois; by Canonie D'Appolonia; January, 1981
- 3) Engineering Investigations, Wood River Refinery Sites, Wood River, Illinois, July 31, 1981; by John Mathes and Associates, Inc.
- 4) Metals in Wood River Soils, and supporting documentation; July-August, 1984
- 5) 4/19/83 Samples, Wood River Pit-Southeast Corner
- 6) Groundwater Monitoring Results, Closed Riverfront Disposal Area; June, August, and November, 1985
- 7) Rough estimate of materials placed in "Northeast Sandpit"; 10/30/81; by C. A. Bartels

As we discussed during our March 11, 1986 telephone conversation, we were not aware of the waste disposal activity in the "Northeast Sandpit" when we met on March 4. The note by C. A. Bartels was discovered in our files while searching for other information you requested at the meeting. We are not sure of the accuracy of the waste amounts indicated on his handwritten note. The "Northeast Sandpit" area is the empty firewall area north of the firewall enclosing Tank 227, in the far northeast corner of the former refinery.

IND THESE
DOCUMENTS
IN THESE FILES
↓
Riverfront

Riverfront
* Refinery

Main Office
WWTP

Refinery

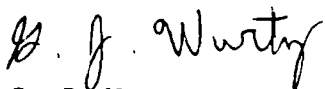
Riverfront

Refinery

You also requested an estimate of the size of the closed additive disposal pit. Our investigation revealed that there was only one pit, instead of two as we earlier thought, and that this pit was approximately 30 feet wide by 45 feet long, and a maximum of 8 to 10 feet deep.

If you have further questions, or need further information, please write, or call me at 312/856-5858.

Sincerely,

A handwritten signature in cursive script, appearing to read "G. J. Wurtz".

G. J. Wurtz
Environmental Consultant

GJW:gw

Enclosures

4/19/83 SAMPLES

Refinery Site

Wood River Pit - Southeast Corner

Water Sample

pH = 7.3

Sulfide = ND

Cyanide = ND

Det. Limit = 1 mg/l

" " = 0.01 "

Toxic Metals, mg/l

	<u>Pb</u>	<u>Cd</u>	<u>Cr</u>	<u>Ba</u>	<u>As</u>	<u>Se</u>	<u>Ag</u>	<u>Hg</u>
	ND	ND	ND	0.037	ND	ND	ND	0.004
Det. Lim.	0.1	0.01	0.015	0.01	0.05	0.17	0.02	0.0002

ND = Not Detected

Composite Oil Sample

Flash point - ~~below 140°F~~

ACTUALLY ABOVE 230°F -

SEE ATTACHED LETTER TO J.L. SAYLOR

FROM R.E. BARCOCK, 7/26/83

Toxic Metals, ppm

	<u>Pb</u>	<u>Cd</u>	<u>Cr</u>	<u>Ba</u>	<u>As</u>	<u>Se</u>	<u>Ag</u>	<u>Hg</u>
	67	ND	2.0	29	ND	ND	11	ND
Det. Lim.	5	0.4	0.7	0.7	2	7	3	2

PNAs by GC/MS

4 ppm chrysene, 0.5 ppm fluorene

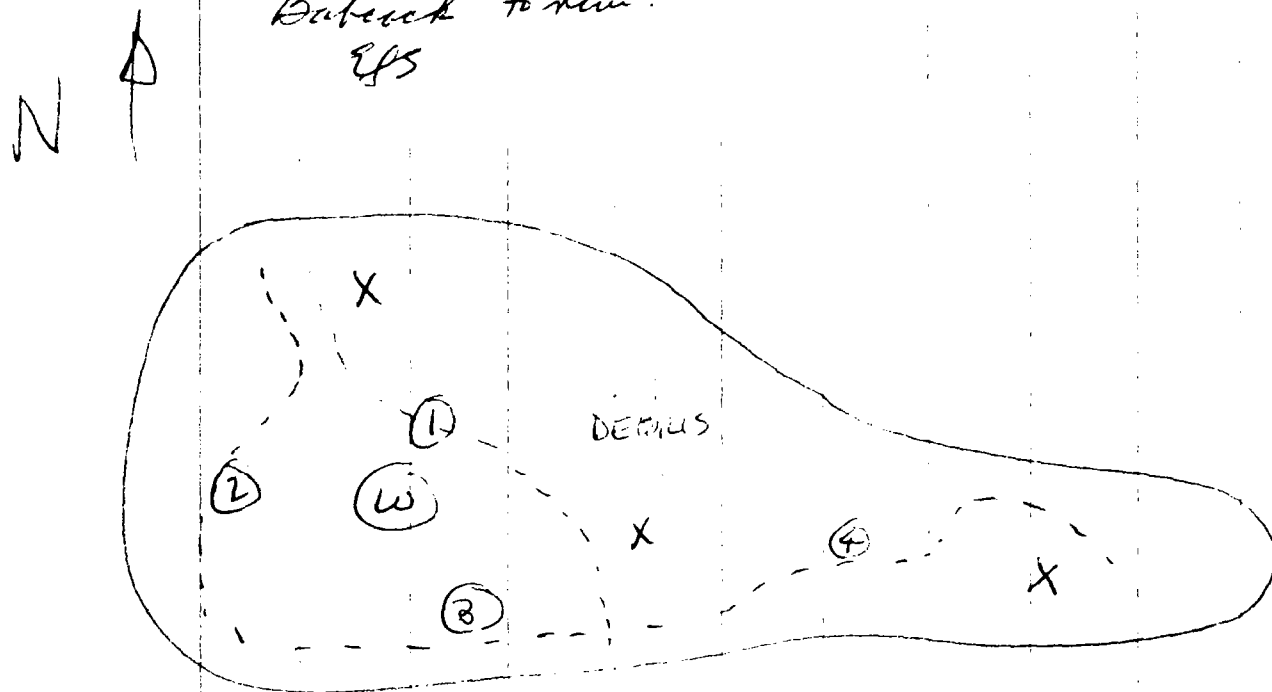
3.5 ppm pyrene

Sludge Composites - EPTOX Metals & Sulfide, mg/l

	<u>Pb</u>	<u>Cd</u>	<u>Cr</u>	<u>Ba</u>	<u>As</u>	<u>Se</u>	<u>Ag</u>	<u>Hg</u>	<u>Sulfide</u>
#1	ND	0.01	ND	0.16	ND	ND	0.16	ND	935 ppm
#2	ND	0.02	0.02	0.32	ND	ND	0.31	ND	538 "
#3	ND	0.03	0.02	0.23	ND	ND	0.26	ND	100 "
#4	ND	0.03	0.02	0.44	ND	ND	0.09	ND	438 "
Det. Limit	0.1	0.01	0.015	0.01	0.05	0.17	0.02	0.0002	- -

4/19/83
WOOD RIVER

This is summary
of our sampling at
Wood River on 4/19
and tests I've asked
Baker to run.
EFS



THE FOUR MULTIPLE-GRAB SLUDGE COMPOSITES WERE
COLLECTED ALONG THE LINES SHOWN

THE OIL WAS GRABBED AT THE X'S

THE WATER SAMPLE WAS TAKEN AT (W)

7/26/83

Jim Saylor
Chgo. ME 1203

As reported to you by phone, the attached report indicates that the flash point rerun on the Wood River Southeast Pit oil was $> 230^{\circ}\text{F}$. I believe the original determination of $< 140^{\circ}\text{F}$ was in error and was caused by entrained water in the sample. This causes the test flame to extinguish, which apparently was falsely interpreted as a flash by the analyst.

As a second check on flammability, a small portion of the oil was heated on a hot plate to 180°F . It could not be lit with a match at this temperature, due to the water present.

Bob Babcock
Naperville, B-3



Standard Oil Company Analytical Request Form

13200-003

This box for Analytical use only
13200-003
Computer Assigned Request No.
Date: JUL 14 1983
Non-routine Service Job. No.

Submitter I.D.

R F BABCOCK

Initials Last Name

B-3

Mail Code

58 3560

C.C. Project No. Sub.

Phone: 5229

Date: 7/18/83

Routine Service ☒

Non-routine Service ☐ - Define Problem On Reverse Side

Sample Identification (Limited to a single alpha/numeric character per square)

1. SEP 17 014 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.

Special Service: RUSH ☐ Need by 1 / 1 (1.5X rate) TOP PRIORITY ☐ (2X rate)

Material: Wood River Oil - S. E. Pit, 4/83

Analyses Requested (limit six)				For Analytical Use Only				
Test Code	Test Title	Est Result	Seq.	Est. Comp. Date	Work unit supervisor	Comp. by	Revised Total Hrs.	Cost
968	Flash, P-M			7-25-83	SCHILLER	SAJ	0.5	43

Submitter's Special Information on Reverse Side ☒ Contains water (entrained)

(FOR ANALYTICAL USE ONLY-DO NOT WRITE IN THIS SPACE)

Report:

P.M. flash

no apparent flash even @ 230°F

Location of Data: Workbook _____ Page No. _____ File I.D. _____ File No. _____

SO-184

Reverse Side _____ Analyst Byrd A. Talbot Date 7-25-83